0993
PB 209 677

AIR POLLUTION REPORT

FEDERAL FACILITIES

METROPOLITAN BIRMINGHAM INTRASTATE

AIR QUALITY CONTROL REGION

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AIR POLLUTION CONTROL OFFICE

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The status is presented of the federally owned facilities within the Metropolitan Birmingham Air Quality Control Region with regard to the implementation of the objectives prescribed by the Clean Air Act, as amended. Fuel usage, refuse disposal practices, air pollution emissions and proposed abatement measures for the listed installations are reported. This Region was subsequently redesignated and its boundaries expanded, hence, the data do not reflect Federal facility emissions data for the counties of: Bibb, Chilton, Fayette, Greene, Hale, Lamar, Pickens and Sumter in Alabama, which have been added to the region.

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AIR POLLUTION REPORT ON FEDERAL FACILITIES

METROPOLITAN BIRMINGHAM INTRASTATE AQCR

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PAGE 16 - Delete Table VII

ADDENDUM TO THE PUBLICATION

"AIR POLLUTION REPORT ON FEDERAL FACILITIES IN THE METROPOLITAN BIRMINGHAM INTRASTATE AIR QUALITY CONTROL REGION", January, 1971.

This inventory was prepared consistent with the report entitled "Consultation on the Birmingham Intrastate Air Quality Control Region", December 1969. and the geographical designation of March 7, 1970. On April 1, 1971, in line with the concept of including the entire United States in these geographical units called Air Quality Control Regions, this Region was re-designated and its boundaries expanded by the Environmental Protection Agency. Hence, the data ~~presented herein~~ do not reflect Federal facility emissions data for the counties of: Bibb, Chilton, Fayette, Greene, Hale, Lamar, Pickens and Sumter in Alabama, which have been added to the region.

Federal Sources Branch
Division of Compliance
Environmental Protection Agency

November 2, 1971

AIR POLLUTION REPORT

FEDERAL FACILITIES

METROPOLITAN BIRMINGHAM INTRASTATE

AIR QUALITY CONTROL REGION

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FEDERAL FACILITIES BRANCH
DIVISION OF ABATEMENT
AIR POLLUTION CONTROL OFFICE
ROCKVILLE, MARYLAND

January 1971

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NARRATIVE

This report presents the current status of the federally owned facilities within the Metropolitan Birmingham Air Quality Control Region with regard to the implementation of the objectives prescribed by the Clean Air Act, as amended. The data in this report are the most recently available and reflect the current fuel usage, refuse disposal practices, air pollution emissions and proposed abatement measures for the listed installations.

I. BOUNDARIES OF THE AIR QUALITY CONTROL REGION

On March 7, 1970 the Metropolitan Birmingham Intrastate Air Quality Control Region was designated pursuant to section 107(a) of the Clean Air Act, as amended. The region comprises Blount, Jefferson, Shelby, St. Clair, Tuscaloosa, and Walker counties all in Alabama.

II. NUMBER OF FEDERAL FACILITIES

There are 41 Federal installations within the Region and of these, 12 are involved in burning either fossil fuels or refuse. Table I is a listing of these facilities and the quantities of fuel and refuse burned by each. Table II is a summary of the total annual fuel usage for the respective counties within the Region.

III. FEDERAL CONTRIBUTIONS TO AIR POLLUTION

The Federal facilities within the Metropolitan Birmingham Air Quality Control Region emit annually a total of 14 tons of sulfur oxides (SO_x), 12 tons of nitrogen oxides (NO_x), 9 tons of particulate (PART), 7 tons of carbon monoxide (CO) and 2 tons of hydrocarbons (HC).

Emissions from transportation sources were not included in this report, but will be covered in a subsequent report on air pollution emissions from mobile sources.

Table IV lists the Federal sources which emit annually more than 100 tons per year (Point Sources) of any one pollutant. There are no such sources in this Region

IV. REMEDIAL ABATEMENT MEASURES PROPOSED

One Federal facility listed in Table VI, reported an air pollution problem and remedial measures in their 1967 - 1972 five year abatement plans. This action and the expected reductions in the air pollution emissions produced by this facility when abatement measures become effective are presented in Table VII.

FIGURE I

METROPOLITAN BIRMINGHAM INTRASTATE
AIR QUALITY CONTROL REGION

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
ALABAMA PLCUNT ONEONTA							
POST OFFICE 203 2ND AVE	0	0	234	0	0	0	REFUSE TO LANDFILL
ALABAMA JEFFERSON BIRMINGHAM							
AF BIRMINGHA MAP	0	0	1107	73590	0	268	REFUSE REMOVED
USARC 15TH & PA AVE NW	0	0	3285	0	0	0	REFUSE REMOVED
USARC 500 C ST NW	0	0	5	0	0	0	REFUSE TO DUMP
VA HOSPITAL 700 S.19TH	0	7	0	0	0	0	PURCHASED STEAM
PO&COURTHSE 5TH&18TH ST	0	0	0	0	0	0	PURCHASED STEAM

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
FAA-H 14007	0	0	0	0	0	0	HOMING BEACON
FAA-VASI 14008	0	0	0	0	0	0	LANDING LIGHTS
FAA-VTAC 14009	0	0	0	0	0	0	RANGE/DIRECT AID
FAA-RCAG 14010	0	0	0	0	0	0	VHF RADIO EQUIPMENT
FAA-ALSF 14011	0	0	0	0	0	0	APPROACH LIGHT SYSTEM
FAA-RTR 14012	0	0	0	0	0	0	TRANSMITTER RECEIVER
FAA-GS 14013	0	0	0	0	0	0	VERTICAL NAV AID

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
FAA-OM 14014	0	0	0	0	0	0	OUTER MARKER
FAA-ASR 14015	0	0	0	0	0	0	AIRPORT RADAR
FAA-ATCT 14203	0	0	0	0	0	0	AIR TRAFFIC CONTROL TOWR
FAA-FSS 14205	0	0	0	0	0	0	FLIGHT SERVICE STA.
FAA-LOC 14209	0	0	0	0	0	0	HORIZONTAL NAV AID
FAA-MM 14210	0	0	0	0	0	0	MIDDLE MARKER
FAA-RVR 14242	0	0	0	0	0	0	RUNWAY VISUAL RANGE

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
ALABAMA JEFFERSON FAIRFIELD							
FOREST EXP. STATION	0	0	0	0	0	0	NO PROBLEMS
POST OFFICE 420 45ST	0	0	0	0	0	15	
ALABAMA SHELBY MONTEVALLO							
POST OFFICE 17 VINE ST N	0	0	372	0	0	0	
ALABAMA TUSCALOOSA TUSCALOOSA							
USARC	0	0	1432	0	0	0	REFUSE REMOVED
USNRC	0	0	2	0	0	0	REFUSE REMOVED

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
CTHSE&FED BD W.GREENSBORO	0	0	2203	0	0	0	REFUSE REMOVED
PO&COURTHSE BROAD&22ND	0	0	0	0	0	0	NO LONGER A FEDERAL FAC.
VA HOSPITAL LOOP ROAD	0	0	55299	69699	0	0	REFUSE TO LANDFILL
METALLURGY RESEARCH CTR	0	0	0	0	0	0	PURCHASED STEAM
FAA-SX 14051	0	0	0	0	0	0	
FAA-VTAC 14052	0	0	0	0	0	0	RANGE/DIRECT AID
FAA-FSS 14200	0	0	0	0	0	0	FLIGHT SERVICE STA.

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
BLACK RIVER L&D NO. 10	0	0	25866	0	0	0	REFUSE REMOVED
BLACK RIVER L&D NO 11	0	0	0	0	0	0	DEACTIVATED
BLACK RIVER L&D NO 12	0	0	0	0	0	0	DEACTIVATED
WM BACON OLIVER L&D	0	0	0	0	0	0	400GAL LPGAS BURNED/YR
ALABAMA TUSCALOOSA NO CITY ID							
HOLT LOCK&DAM	0	0	0	0	0	0	400GAL LPGAS BURNED/YR
ALABAMA TUSCALOOSA HOLT							
FAA-VTAC 14055	0	0	0	0	0	0	RANGE/DIRECT AID

TABLE I

FUEL USAGE AND REFUSE DISPOSAL FOR FEDERAL FACILITIES

LOCATIONS	REFUSE (LBS/DAY)		FUELS (PER YEAR)				COMMENTS
	OPEN BURNING	INCIN-ERATION	GAS (MCF)	DIST OIL (GALS)	RESID OIL (GALS)	COAL (TONS)	
ALABAMA WALKER CARBON HILL							
CARBON HILL FISH HATCH	0	0	522	0	0	0	REFUSE REMOVED
ALABAMA WALKER JASPER							
POST OFFICE 400 E. 19TH	0	0	1606	0	0	0	REFUSE REMOVED
ALABAMA ST CLAIR							
	0	0	0	0	0	0	NO INSTLS IN THIS COUNTY

TABLE II

ANNUAL FUEL USE BY FEDERAL FACILITIES

	COAL (TONS)	RESID OIL (GAL)	DIST OIL (GAL)	GAS (MCF)
ALABAMA				
BLOUNT	0	0	0	234
JEFFERSON	283	0	73590	4397
SHELBY	0	0	0	372
TUSCALOOSA	0	0	69699	84802
WALKER	0	0	0	2128
ST CLAIR	0	0	0	0
TOTAL	283	0	143289	91933

TABLE III

FEDERAL CONTRIBUTION TO AIR POLLUTION
(TONS/YEAR)

	SOX	NOX	CO	PART	HC
ALABAMA					
BLOUNT	0	0	0	0	0
JEFFERSON	8	2	7	8	2
SHELBY	0	0	0	0	0
TUSCALOOSA	6	10	0	1	0
WALKER	0	0	0	0	0
ST CLAIR	0	0	0	0	0
STATE TOTAL	14	12	7	9	2
AREA TOTAL	14	12	7	9	2

NOTE: (1) EMISSIONS REPORTED IN SIGNIFICANT FIGURES
(2) EMISSIONS LESS THAN 0.5 TONS/YR REPORTED AS ZERO

TABLE IV

FEDERAL POINT SOURCES
(TONS/YEAR)

SOX	NOX	CO	PART	HC

NO FEDERAL POINT

SOURCES

IN THIS REGION

TABLE V

COAL-FIRED BOILERS IN VIOLATION OF 42 CFR 76.4

INSTALLATION NAME	BOILER SIZE (MMBTU/HR)	NUMBER OF BOILERS	COAL USED (TONS/YEAR)	PART. (LBS/MMBTU) EMITTED	PART. (LBS/MMBTU) ALLOWED	PART. EMITTED TONS/YR/BOILER
AF BIRMINGHA MAP	3.0	2	134	1.78	0.60	3.4
POST OFFICE 420 45ST	0.1	1	15	1.78	0.60	0.4

TABLE VI

ABATEMENT PROGRAM FOR FEDERAL PROBLEM AREAS

IN THE

METROPOLITAN BIRMINGHAM INTRASTATE

AIR QUALITY CONTROL REGION

A. Statement of Problem

B. Abatement measures proposed in five year plan*

C. Abatement measures accomplished or in progress

ALABAMA

JEFFERSON

BIRMINGHAM

VA Hospital

A. Pathological incinerator

B. Installation of new incinerator

C. Measures not yet implemented

*1967 - 72 plan per Executive Order 11282
superseded by Executive Order 11507

TABLE VII

POLLUTANT REDUCTION GOALS
(TONS/YEAR)

	SOX	NOX	CO	PART	HC
ALABAMA					
BLOUNT	0	0	0	0	0
JEFFERSON	8	2	7	8	2
SHELBY	0	0	0	0	0
TUSCALOOSA	6	10	0	1	0
WALKER	0	0	0	0	0
ST CLAIR	0	0	0	0	0
STATE TOTAL	14	12	7	9	2
AREA TOTAL	14	12	7	9	2

NOTE: THESE REDUCTIONS WILL RESULT FROM ABATEMENT MEASURES PROPOSED, BUT NOT YET ACCOMPLISHED, IN THE FIVE-YEAR PLAN.

REFERENCES AND NOTES

1. Duprey, R. L., Compilation of Air Pollutant Emission Factors, Public Health Service Publication No. 999-AP-42, 1968.

   All calculated emissions are based on these factors.

2. Report for Consultation on the Metropolitan Birmingham Intrastate Air Quality Control Region, Public Health Service, December 1969.

   Data on emissions from all sources used to calculate percent government contribution were obtained from this report.

3. Clean Air Act, as amended (42 U.S.C. 1857-1857L) Sec 107, Sec 111. November 21, 1967.

4. Executive Order 11507, Prevention, Control, and Abatement of Air and Water Pollution at Federal Facilities, February 4, 1970.

5. Title 42 - Public Health, Chapter I, Subchapter F, Part 76, June 2, 1966.

6. Bureau of the Budget Circular A-76 (Revised), May 18, 1970.

7. 1970 GSA Listing of Real Property owned by the Federal Government.